

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-17 (cancelled)

18. (previously presented) A fiber reinforced core panel adapted for use with a hardenable resin and having opposite core surfaces adapted to be attached to corresponding skins, said core panel comprising a plurality of longitudinally spaced elongated strips of low density cellular material and defining spaces between opposing ends of said strips, at least one layer of fibrous rovings continuously and helically surrounding each of said strips along the length thereof and the spaces therebetween, said elongated strips being connected by said helically surrounding rovings and folded to form a unitized said core panel with said rovings extending over said core surfaces and said ends of said strips and adapted to be moved to a molding process where the resin is hardened.

19. (previously presented) A core panel as defined in claim 18 and including longitudinally spaced internal transverse reinforcing members extending laterally within said strips and between said core surfaces.

20. (cancelled)

21. (cancelled)

22. (previously presented) A fiber reinforced core panel of annular configuration and adapted for use with a hardenable resin and having opposite core surfaces adapted to be attached to corresponding skins, said core panel comprising a continuous elongated strip of low density cellular material, at least one layer of fibrous rovings continuously and helically surrounding said strip along the length thereof, said strip extending in helical path to form said annular configuration, adjacent portions of said elongated strip and said helically surrounding rovings being connected together to form a unitized said core panel with said rovings extending over said core surfaces for receiving the skins and adapted to be moved as a preform unit to a molding process where the resin is hardened.

Appl. No. 10/810,298

23. (previously presented) A core panel as defined in claim 22 and including generally parallel continuous fibrous rovings extending longitudinally along said strip adjacent a layer of helically surrounding rovings.

24. (previously presented) A core panel as defined in claim 22 and including longitudinally spaced internal transverse reinforcing members extending laterally within said strip and to said core surfaces.

25. (previously presented) A core panel as defined in claim 22 and including at least one internal strip of fibrous material extending longitudinally within said strip generally parallel to said opposite core surfaces.

26. (previously presented) A core panel as defined in claim 22 and including an internal resin distribution groove extending within said strip and spaced inwardly from said opposite core surfaces and intersecting said rovings between adjacent portions of said strip for supplying resin to said core surfaces through said rovings.

27. (previously presented) A core panel as defined in claim 22 wherein said rovings are porous for receiving a hardenable adhesive resin.

28. (previously presented) A core panel as defined in claim 22 wherein said rovings include a heat activated resin.

29. (previously presented) A core panel as defined in claim 28 wherein said layer of helically surrounding rovings includes additional porous rovings adapted for bonding to adhesive reinforced scrim.

30. (previously presented) A core panel as defined in claim 22 and including a second said core panel overlying and adjacent the first said core panel.

Appl. No. 10/810,298

31. (previously presented) A core panel as defined in claim 22 and including a plurality of rows of stitched rovings forming reinforcing struts extending between said opposite core surfaces.

32. (previously presented) A core panel as defined in claim 22 wherein said strip of cellular material has generally a triangular cross-sectional configuration.

33. (previously presented) A core panel as defined in claim 22 wherein said strip of material has generally a trapezoidal cross-sectional configuration.

34. (previously presented) A core panel as defined in claim 22 and including a resin barrier film adjacent at least one of said core surfaces.

35-53 (cancelled)

54. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising an elongated strip including a series of longitudinally arranged adjacent blocks of low density rigid material, a first set of continuous fibrous rovings each helically surrounding said strip and extending continuously along the entire length of the strip around the entire plurality of said blocks, a second set of continuous fibrous rovings helically surrounding said strip and extending continuously along the entire length of said strip around the entire series of said blocks, said rovings in said second set extending helically in an opposite direction and crossing said rovings in said first set, reinforcing members separate from said continuous fibrous rovings and extending between said adjacent blocks, and said core adapted to be moved to the molding apparatus where the skins are added and the resin is hardened.

55. (new) A core as defined in claim 54 wherein said reinforcing members comprise planar webs.

56. (new) A core as defined in claim 54 wherein said reinforcing members comprise fibrous rovings.

57. (new) A core as defined in claim 54 and including generally parallel continuous fibrous rovings extending longitudinally along said strip adjacent one of said sets of continuous fibrous rovings helically surrounding said strip.

58. (new) A core as defined in claim 57 wherein said longitudinally extending rovings are disposed adjacent longitudinally extending corners of said strip.

59. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising an elongated strip including a series of longitudinally arranged adjacent blocks of low density cellular material, fibrous rovings each helically surrounding each of said blocks and extending between said adjacent blocks, at least one set of continuous fibrous rovings separate from said rovings extending between said adjacent blocks, each of said fibrous rovings in said set helically surrounding said strip and extending continuously along the entire length of said strip around the entire said series of said blocks in said strip, and said core adapted to be moved to the molding apparatus where the skins are added and the resin is hardened.

60. (new) A core as defined in claim 59 and including a second set of continuous fibrous rovings with each of said rovings helically surrounding said strip and extending continuously along the entire length of said strip around the entire series of said blocks in said strip, and said second set of rovings extending helically in opposite directions and crossing said rovings in said first set.

61. (new) A core as defined in claim 59 and including generally parallel continuous fibrous rovings extending perpendicular to opposite surfaces of said core and adjacent said set of said rovings extending helically around said blocks.

62. (new) A core as described in claim 59 and including additional fibrous rovings extending adjacent opposite surfaces of said core and parallel to said strips, and said additional fibrous rovings projecting into said foam blocks by a depth greater than a width of said additional fibrous rovings.

63. (new) A core as defined in claim 59 and including generally parallel continuous fibrous rovings extending longitudinally along at least one of said strips adjacent said set of continuous fibrous rovings.

64. (new) A core as defined in claim 63 wherein said rovings extending longitudinally along said one strip are disposed adjacent corners of said one strip.

65. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising a plurality of elongated adjacent strips of low density cellular material, each of said strips having opposite faces attached to corresponding facer sheets extending perpendicular between opposite surfaces of said core, a first set of continuous fibrous rovings each helically surrounding at least two adjacent said strips and extending continuously along the entire length of the adjacent said strips, a second set of continuous fibrous rovings each helically surrounding said two adjacent said strips and extending continuously along the entire length of said two adjacent strips, said rovings in said second set crossing said rovings in said first set, and said elongated strips and said helically surrounding rovings forming an elongated unitized said core with said rovings extending over said core surfaces and adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened.

66. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising a plurality of elongated parallel strips of low density cellular material, parallel spaced said strips each having a first set of continuous fibrous rovings each helically surrounding said strip and extending continuously along the entire length of said strip, a second set of continuous fibrous rovings each helically surrounding each of said parallel spaced strips and extending along the entire length of said strip with said rovings in said second set crossing said rovings in said first set, and said elongated strips including said parallel spaced strips with said helically surrounding rovings being connected together to form a unitized said core with said rovings extending over opposite core surfaces on said parallel spaced said strips and adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened.

67. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising a plurality of elongated parallel strips of low density cellular material, at least one set of continuous fibrous rovings each helically surrounding each of said strips and extending continuously along the entire length of said strip, said elongated parallel strips and said helically surrounding rovings being connected together with adjacent said strips separated by elongated spacer strips separate from said continuous fibrous rovings and extending longitudinally the entire length of said strips between opposite core surfaces of said core, and all of said elongated strips including said strips with said helically surrounding rovings being connected together to form a unitized said core with said rovings extending over said core surfaces and adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened .

68. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins , said core comprising a plurality of elongated strips of low density cellular material, each of said strips having a portion of reduced thickness, generally parallel continuous fibrous rovings each extending longitudinally along each of said strips and over said portion of reduced thickness, at least one set of continuous fibrous rovings helically surrounding each of said strips and continuing over said portion of reduced thickness, said set of rovings extending continuously along the entire length of each said strip, and said elongated strips and said helically surrounding rovings being connected together to form a unitized said core with said rovings extending over opposite core surfaces and adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened.

69. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising at least one elongated strip including a series of longitudinally disposed connected blocks of low density cellular material, at least one set of fibrous rovings extending helically around each of said blocks, said elongated strip forming a unitized said core with end portions of said rovings terminating at opposite surfaces of said core, and said elongated strip of said connected blocks adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened.

70. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising a plurality of elongated hollow tubes, at least one set of fibrous rovings helically surrounding each of said tubes and extending continuously along the entire length of said tube, said elongated tubes and said helically surrounding rovings being connected together to form a unitized said core with said rovings extending over opposite surfaces of said tubes and adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened.

71. (new) A one-piece fiber reinforced core adapted for use with a hardenable resin and to be inserted into molding apparatus for receiving skins, said core comprising a plurality of elongated adjacent strips each including a series of longitudinally arranged adjacent blocks of low density rigid material, a first set of continuous fibrous rovings each helically surrounding each of said strips and extending continuously along the entire length of said strip, a second set of continuous fibrous rovings each helically surrounding each of said strips and extending continuously along the entire length of said strip, said rovings in said second set crossing said rovings in said first set, crossing rovings extending between adjacent said blocks in each said strip, and said elongated strips and said helically surrounding rovings being connected to form a unitized said core with said rovings extending over opposite surfaces of said core and adapted to be moved as a preform unit to the molding apparatus where the skins are added and the resin is hardened.